

## Patent Abstracts of Japan

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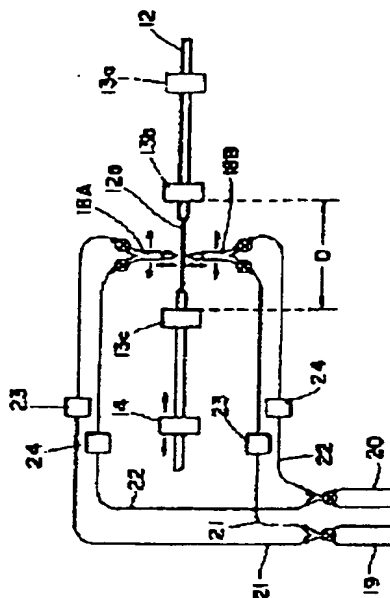
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TITLE : METHOD AND DEVICE FOR  
INCREASING MODE FIELD DIAMETER  
OF OPTICAL FIBER



ABSTRACT : PURPOSE: To connect a quartz-based optical fiber with low loss or at low cost.

CONSTITUTION: The optical fiber 12 constituted by adding a dopant to its core or clad has its jacket removed at the part where the mode field diameter is to be increased and is fixed on fixation bases 13a-13c while impressed with a tensile force and extended straight; and only an extremely short section of the jacket-removed part 12a is heated by a couple of microburners 18A and 18B of the same size without deforming the optical fiber. Consequently, the dopant added to the core or clad is thermally diffused to increase the mode field diameter.

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